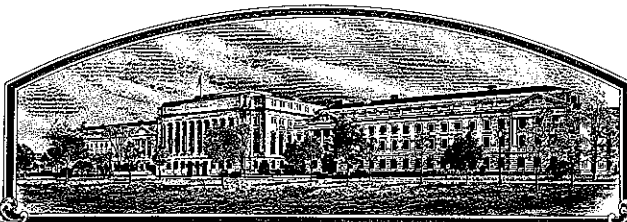


No.



9800264

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Hybri Tech Seed International, a unit of Monsanto Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE IDENTIFIED BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GRAMS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Hagar'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of July in the year of our Lord one thousand nine hundred and ninety-nine.

Attest:

Ann Marie St.
Commissioner
Plant Variety Protection Office
United States Department of Agriculture

Don H. Wickman
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the privacy Act of 1974 (5 U.S.C. 552a)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421) Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
HybriTech Seed International, a unit of Monsanto Co.		H392-0434 N92-0434	HAGAR
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
5912 N. Meridian Street Wichita, Kansas 67204-1699		316-755-1250	PVPO NUMBER 9800264
		6. FAX (include area code)	F I L I N G DATE
		316-755-0072	5-20-98
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botanical)	FILING AND EXAMINATION FEE:	
<u>Triticum aestivum</u>	Gramineae	F E E DATE 2450.00 5/20/1998	
9. CROP KIND NAME (common name)		CERTIFICATION FEE	
Hard Red Spring Wheat		300	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (common name)		DATE	
Corporation		8-10-99	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. DATE OF INCORPORATION		
Delaware	1933		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS		14. TELEPHONE (include area code)	
Dr. Gordon Cisar 806 N. Second Street PO Box 1320 Berthoud, Colorado 80513		970-532-9840	
OR Mr. Robert Bruns 806 N. Second Street PO Box 30 Berthoud, Colorado 80513 970-532-3721		15. FAX (include area code)	
		970-532-2035	

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (follow instructions on reverse)

- a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of the Variety
d. ☒ Exhibit D. Additional Description of the Variety
e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership
f. ☒ Voucher Sample (2,500 viable untreated seeds, or, for tuber propagated varieties velfication that tissue culture will be deposited and maintained in a public repository)
g. ☒ Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)

☒ YES (if "yes", answer items 18 and 19 below) ☐ NO (if "no", go to item 20)

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? 19. IF 'YES' TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDERS SEED?

☒ YES ☐ NO ☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

☐ YES (if "YES", give names of countries and dates) ☒ NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
<i>Dr. Gordon Cisar</i>			
NAME (Please print or type)		NAME (Please print or type)	
Dr. Gordon Cisar			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Senior Project Leader, HRW Research	5/12/98		

Exhibit A.
Origin and Breeding History of Hagar

Hagar originated from the cross "Dalen/3/(HS85-0476) MN7426/MN73115/2/MN73167". Single seed descent was used to advance F2 selections through the F3 and F4 generations in the Berthoud greenhouse during the fall and winter of 1989-90. F5 headrows from these selections were planted at St. Thomas, North Dakota in 1990 where they were further screened for foliar diseases, straw strength and height. F6 increase plots were grown in Berthoud, CO in 1991 for preliminary yield trials. Hagar has been tested in the Northern Uniform Regional Nursery in 1995 and 1996 and entered in to official state tests in North Dakota, South Dakota and Minnesota in 1997.

In 1994, 48 headrows were grown in Berthoud, Colorado. Forty headrows with uniform appearance were harvested and planted as an initial Breeders Seed increase in 1995. In 1996, a two acre Breeders Seed increase was grown in Berthoud, Colorado which produced 2,500 pounds of seed.

Hagar has been uniform and stable since 1995. About 0.8% of the plants were rogued from the initial Breeder's Seed increase in 1995. Approximately 87% of the rogued variant plants were taller height wheat plants (5 to 15 cm.) and 3% were awnletted wheat plants. Up to 1.0% variant plants may be encountered in subsequent generations.

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Exhibit B.

Statement of Distinctness

Hagar is most similar to the hard red spring wheat 'Verde'. However, it can be easily distinguished by the following morphological characteristics:

- Hagar has a recurved flag leaf at boot stage (Berthoud, Colorado 1994, 1995, 1996). Verde has an erect flag leaf at boot stage (Plant Variety Protection Objective Description #9600115).
- Hagar expresses hairs on the last rachis of the internode (Berthoud, Colorado 1994, 1995, 1996). Verde does not have hairs on the last rachis of the internode (Plant Variety Protection Objective Description #9600115).
- Hagar has a square shoulder shape on the glume (Berthoud, Colorado 1994, 1995, 1996). Verde has an elevated shoulder shape on the glume (Plant Variety Protection Objective Description #9600115).

88 MAY 30 10 38

0204-VINE-6460
BCH-100

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (*Triticum* Spp.)

NAME OF APPLICANT(S) HybriTech Seed International, a unit of Monsanto Co.	FOR OFFICIAL USE ONLY PVPO NUMBER 9800264
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 5912 N. Meridian Street Wichita, Kansas 67204-1699	NAME OR EXPERIMENTAL DESIGNATION HAGAR

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in the first box when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized standard may be used to determine plant colors; designate system used.

Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

1 1=Common 2=Durum 3=Club 4=Other (specify) _____

2. VERNALIZATION:

1 1=Spring 2=Winter 3=Other (specify) _____

3. COLEOPTILE ANTHOCYANIN:

1 1=Absent 2=Present

4. JUVENILE PLANT GROWTH:

3 1=Prostrate 2=Semi-erect 3=Erect

5. PLANT COLOR (boot stage):

2 1 = Yellow-Green 2 = Green 3 = Blue-Green

6. FLAG LEAF (boot stage):

2 1 = Erect 2 = Recurved

2 1 = Not Twisted 2 = Twisted

7. EAR EMERGENCE:

0 0 Number of Days Earlier Than _____ *

4 .4 Number of Days Later Than **Butte 86** *

8. ANTHHER COLOR:

1 1 = YELLOW 2 = PURPLE

9. PLANT HEIGHT (from soil to top of head, excluding awns):

0 0 cm Taller Than _____ *

6 .8 cm Shorter Than **Butte 86** *

* Relative to a PVPO-Apprvd Commercial Variety Grown in the Same Trial

10. STEM:

A. ANTHOCYANIN

1 1= Absent 2=Present

B. WAXY BLOOM

2 1=Absent 2=Present

C. HAIRINESS (*last internode of rachis*)

2 1=Absent 2=Present

D. INTERNODE (*specify number*)

1 1=Hollow 2=Semi-solid 3=Solid

E. PEDUNCLE

1 1=Absent 2=Present

1 3 cm Length

11. HEAD (*at Maturity*):

A. DENSITY

2 1=Lax 2=Middense 3= Dense

B. SHAPE

1 1 = Tapering 2= Strap 3 = Clavate 4 = Other (*specify*)

C. CURVATURE

1 1 = Erect 2 = Inclined 3 = Recurved

D. AWNEDNESS

4 1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned

12. GLUMES (*at Maturity*):

A. COLOR

1 1 = White 2 = Tan 3 = Other (*specify*)

B. SHOULDER

4 1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate

C. BEAK

3 1 = Obtuse 2 = Acute 3 =Acuminate

D. LENGTH

2 1 = Short (ca. 7mm) 2 = Medium (ca. 8mm) 3 = Long (ca. 9mm)

E. WIDTH

2 1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)

13. SEED:

A. SHAPE

1 1 = Ovate 2 = Oval 3 = Elliptical

B. CHEEK

1 1=Rounded 2=Angular

C. BRUSH

2 1=Short 2=Medium 3=Long

1 1 = Not Collared 2 = Collared

D. CREASE

1 1 = Width 60% or less of Kernel
2 = Width 80% or less of Kernel
3 = Width Nearly as Wide as Kernel

1 1 = Depth 20% or less of Kernel
2 = Depth 35% or less of Kernel
3 = Depth 50% or less of Kernel

13. SEED: (continued)

E. COLOR

☒ 3 1 = White 2 = Amber 3 = Red 4 = Other (specify) _____

F. TEXTURE

☒ 1 1=Hard 2=Soft

G. PHENOL REACTION (see instructions):

☒ 0 1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black

14. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

<input checked="" type="checkbox"/> 4 Stem Rust (<i>Puccinia graminis</i> f. sp. <i>tritici</i>) Field races	<input checked="" type="checkbox"/> 4 Leaf Rust (<i>Puccinia recondita</i> f. sp. <i>tritici</i>) Field races
<input checked="" type="checkbox"/> 0 Stripe Rust (<i>Puccinia striiformis</i>)	<input checked="" type="checkbox"/> 0 Loose Smut (<i>Ustilago tritici</i>)
<input checked="" type="checkbox"/> 0 Tan Spot (<i>Pyrenophora tritici-repentis</i>)	<input checked="" type="checkbox"/> 0 Flag Smut (<i>Urocystis agropyri</i>)
<input checked="" type="checkbox"/> 0 Halo Spot (<i>Selenophoma donacis</i>)	<input checked="" type="checkbox"/> 0 Common Bunt (<i>Tilletia tritici</i> or <i>T. laevis</i>)
<input checked="" type="checkbox"/> 0 <i>Septoria nodorum</i> (Glume Blotch)	<input checked="" type="checkbox"/> 0 Dwarf Bunt (<i>Tilletia controversa</i>)
<input checked="" type="checkbox"/> 0 <i>Septoria avenae</i> (Speckled Leaf Disease)	<input checked="" type="checkbox"/> 0 Karnal Bunt (<i>Tilletia indica</i>)
<input checked="" type="checkbox"/> 0 <i>Septoria tritici</i> (Speckled Leaf Blotch)	<input checked="" type="checkbox"/> 0 Powdery Mildew (<i>Erysiphe graminis</i> f. sp. <i>tritici</i>)
<input checked="" type="checkbox"/> 0 Scab (<i>Fusarium</i> spp.)	<input checked="" type="checkbox"/> 0 Snow Molds
<input checked="" type="checkbox"/> 0 Black Point (Kernel Smudge)	<input checked="" type="checkbox"/> 0 Common Root Rot (<i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.)
<input checked="" type="checkbox"/> 0 Barley Yellow Dwarf Virus (BYDV)	<input checked="" type="checkbox"/> 0 Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)
<input checked="" type="checkbox"/> 0 Soilborne Mosaic Virus (SBMV)	<input checked="" type="checkbox"/> 0 Black Chaff (<i>Xanthomonas campestris</i> pv. <i>translucens</i>)
<input checked="" type="checkbox"/> 0 Wheat Yellow (Spindle Streak) Mosaic Virus	<input checked="" type="checkbox"/> 0 Bacterial Leaf Blight (<i>Pseudomonas syringae</i> pv. <i>syringae</i>)
<input checked="" type="checkbox"/> 0 Wheat Streak Mosaic Virus (WSMV)	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Other (specify) _____

15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

<input type="checkbox"/> 0	Hessian Fly (<i>Mayetiola destructor</i>)	<input type="checkbox"/>	Other (specify)
<input type="checkbox"/> 0	Stem Sawfly (<i>Cephus</i> spp.)	<input type="checkbox"/>	Other (specify)
<input type="checkbox"/> 0	Cereal Leaf Beetle (<i>Oulema melanopa</i>)	<input type="checkbox"/>	Other (specify)
<input type="checkbox"/> 0	Russian Aphid (<i>Diuraphis noxia</i>)	<input type="checkbox"/>	Other (specify)
<input type="checkbox"/> 0	Greenbug (<i>Schizaphis graminum</i>)	<input type="checkbox"/>	Other (specify)
<input type="checkbox"/> 0	Aphids		

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

28 MAY 50 13:38

02DA-VUO-6460

REC'D

Exhibit D.
Additional Description of Hagar

Hagar is a hard red spring wheat bred and developed by Agripro Seeds, Inc. Hagar is a standard height semidwarf with medium late maturity, good test weight and very strong straw. Hagar offers moderate resistance to leaf rust and stem rust. Milling and baking characteristics are satisfactory.

Juvenile growth habit is erect. Seedling anthocyanin is present. Plant color at boot stage is green. Auricle anthocyanin and auricle hairs are present. Flag leaf at boot stage is recurved and twisted. Waxy bloom is present on the head, stem and flag leaf sheath. Anther color is yellow. Head shape is tapering and awned. Glumes are glabrous, medium in width and medium in length with square shoulders and acuminate beaks. Seed shape is ovate. Brush hairs are medium in size. Seed crease depth is shallow and width is narrow. Seed cheeks are rounded.

Hagar is well adapted to the spring wheat region which includes the states of Minnesota, North Dakota, South Dakota and Montana.

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ACRIPRO WHEAT
HARD RED SPRING WHEAT

YEAR: 1997

FLOUR/WHEAT QUALITY

BAKING QUALITY

YEAR LOC	TEST WT	—MIXOGRAM—										—CRUMB—									
		WHT		FIR		FIR		PK		PK		TOL		ABS		LOAF		TX		COOL	
		PROT	14%mb	PROT	14%mb	R	%	min	N.U.	mm	R	%	R	min	R	cc	R	R	R	R	OVER
97 MW	00.0	13.1	12.4	0	72	74.0	0	.526	3.25	5.5	985	0	66.0	0	3.25	0	1120	0	5	4	4
96 PR	00.0	15.6	14.1	3	92	72.6	4	.396	2.50	5.8	536	6	69.0	2	2.00	5	940	5	5	3	4
96 BP	00.0	15.0	13.9	4	70	70.9	4	.434	3.25	5.3	1061	3	66.0	4	3.25	1	975	4	4	2	4
95 PR	00.0	14.6	13.3	5	67	70.0	5	.394	3.50	6.0	912	5	66.0	3	3.50	1	950	3	4	3	3
92 MW	60.0	13.3	12.3	5	95	76.5	3	.000	3.00	5.5	990	5	62.0	4	2.25	3	750	4	4	3	3
N92-0434																					
AVERAGE	60.0	14.3	13.2	4.3	79	72.8	4.0	.438	3.10	5.6	897	4.8	65.8	3.3	2.85	2.5	947	4.0	4.4	3.0	3.6

YEAR LOC	TEST WT	GRANDIN										BAKING QUALITY									
		WHT		FIR		FIR		PK		PK		TOL		ABS		LOAF		TX		COOL	
		PROT	14%mb	PROT	14%mb	R	%	min	N.U.	mm	R	%	R	min	R	cc	R	R	R	R	OVER
97 MW	00.0	12.7	11.9	0	77	73.3	0	.518	3.00	5.0	1145	0	63.0	0	3.00	0	1235	0	3	1	2
96 PR	00.0	15.4	14.4	3	90	74.5	2	.398	3.50	5.8	800	3	69.0	2	3.00	1	950	4	5	3	3
96 BP	00.0	15.6	14.5	2	78	73.3	1	.388	3.25	5.5	1042	3	67.0	3	2.75	1	865	5	4	3	3
95 PR	00.0	15.1	14.2	3	81	74.8	1	.510	3.75	5.8	1054	3	67.0	2	3.50	1	1000	3	5	2	3
92 MW	58.3	14.5	13.6	2	107	78.0	2	.495	2.50	5.0	1038	5	64.0	2	2.50	3	840	3	5	4	3
AVERAGE	58.3	14.7	13.7	2.5	87	74.8	1.5	.462	3.20	5.4	1016	3.5	66.0	2.3	2.95	1.5	978	3.8	4.4	2.6	2.8

RATINGS: 1-2=EXCELLENT 3-4=GOOD 5=ACCEPTABLE 6-7=QUESTIONABLE 8-9=UNACCEPTABLE

OVER YEAR HRSW SUMMARY RANKED BY ECONOMIC RETURN

AGRIPO DATA FROM RED RIVER VALLEY SITES - 1995 THRU 1997

VARIETY	ECONOMIC RETURN ¹			YIELD - BU/A			TEST WEIGHT lbs/bu	PROT. %	HEADING ² 1-9	HEIGHT ² 1-9	FOLIAR ²	
	\$/Bu	Net \$/A		95	96	97					DIS. 1-9	LODGING ² 1-9
GUNNER	\$ 4.85	\$ 72.92		41.9	71.1	41.9	61.2	15.2	6.3	7.7	3.9	3.5
AC BARRIE*	\$ 4.78	\$ 70.70		47.9	76.7	35.4	59.7	15.3	6.5	8.0	5.3	6.0
OXEN*	\$ 4.39	\$ 66.05		49.9	74.5	41.6	57.6	14.4	2.9	5.0	6.2	2.9
LARS	\$ 4.11	\$ 63.03		52.8	80.8	42.7	57.5	13.2	5.5	4.0	2.8	1.7
GRANDIN	\$ 4.43	\$ 62.08		49.2	73.4	39.6	60.1	14.2	3.8	6.7	5.6	4.2
TRENTON	\$ 4.64	\$ 61.53		45.0	70.9	38.8	59.5	14.8	4.0	8.0	5.3	2.9
N92-0434	\$ 4.37	\$ 55.03		43.7	78.2	40.0	58.4	14.3	6.1	5.3	3.3	2.2
RUSS	\$ 4.25	\$ 52.74		47.9	75.2	39.8	58.8	13.9	3.3	6.3	6.3	3.9
NORDIC	\$ 4.01	\$ 52.44		53.4	77.7	40.7	58.6	12.3	6.3	6.0	4.6	4.7
HAMER	\$ 4.22	\$ 49.63		48.3	73.4	39.2	58.1	13.8	4.4	5.3	4.0	2.7
AC DOMAIN*	\$ 4.83	\$ 49.19		41.6	65.7	33.9	59.2	15.7	5.2	8.0	6.3	3.7
NORLANDER	\$ 4.23	\$ 49.08		46.0	75.7	39.6	57.7	14.0	2.8	5.7	5.9	3.0
NORA	\$ 4.68	\$ 48.64		43.0	67.8	34.7	58.6	15.1	4.6	4.0	5.6	4.2
2375	\$ 4.36	\$ 47.85		46.3	67.8	38.7	59.6	14.1	3.9	6.3	5.4	6.9
BUTTE 86	\$ 4.42	\$ 44.67		43.6	68.0	37.8	58.6	14.4	2.5	7.0	5.9	3.5
VERDE	\$ 4.16	\$ 37.55		42.8	72.6	39.2	58.7	13.3	6.2	5.0	4.0	3.5
BACUP*	\$ 5.18	\$ 25.96		32.2	48.4	32.2	61.6	16.7	2.1	7.0	6.6	7.9
MEAN				47.3	72.9	39.3	59.0	14.2	4.7	5.7	4.9	3.7
NO. OF LOCS.				4	2	5	6	6	6	2	6	2

*Not tested in 1995, yield data adjusted for averages

¹ Economic return per bu. calculated using 10 year average Minneapolis cash grain price of \$4.24 for 14% protein and 10 year average figures on protein premiums/discounts and typical test weight discounts. Net \$ return per acre = gross return less \$156 (estimated input costs in eastern North Dakota from NDSU extension).

² Ratings given to agronomics and disease on a 1-9 basis. Heading (1=earliest); Height (1=shortest); Foliar disease (1=resistance); Lodging (1=strongest straw)

9800264

HARD RED SPRING WHEAT SUMMARY - 1995 AND 1996 **Uniform Regional Data**

N92-0434 VS. STOA

STATE	YIELD - BU/A		T.WT. - LBS/BU		HEADING - DAYS		HEIGHT - CM		LODGING - 1-9	
	LOCS N92-0434	STOA	LOCS N92-0434	STOA	LOCS N92-0434	STOA	LOCS N92-0434	STOA	LOCS N92-0434	STOA
MINNESOTA	6	45.5	48.0	55.7	6	36.0	6	78.7	4	4.8
NORTH DAKOTA	11	54.0	40.9	58.4	12	36.2	12	74.6	1	4.8
SOUTH DAKOTA	6	59.9	55.2	58.7	5	28.8	6	77.8		
MONTANA	5	56.7	52.9	61.2	5	35.2	5	74.2		
MEAN	28	53.9	47.6	58.4	28	34.6	29	76.0	4	4.8

N92-0434 VS. BUTTE 86

STATE	YIELD - BU/A		T.WT. - LBS/BU		HEADING - DAYS		HEIGHT - CM		LODGING - 1-9	
	LOCS N92-0434	BUTTE 86	LOCS N92-0434	BUTTE 86	LOCS N92-0434	BUTTE 86	LOCS N92-0434	BUTTE 86	LOCS N92-0434	BUTTE 86
MINNESOTA	6	45.5	46.3	55.7	6	36.0	6	78.7	4	3.5
NORTH DAKOTA	11	54.0	43.5	58.4	12	36.2	12	74.6	1	3.5
SOUTH DAKOTA	6	59.9	56.5	58.7	5	28.8	6	77.8		
MONTANA	5	56.7	49.5	61.2	5	35.2	5	74.2		
MEAN	28	53.9	48.0	58.4	28	34.6	29	76.0	4	3.5

N92-0434 VS. GUNNER

STATE	YIELD - BU/A		T.WT. - LBS/BU		HEADING - DAYS		HEIGHT - CM		LODGING - 1-9	
	LOCS N92-0434	GUNNER	LOCS N92-0434	GUNNER	LOCS N92-0434	GUNNER	LOCS N92-0434	GUNNER	LOCS N92-0434	GUNNER
MINNESOTA	6	45.5	43.2	55.7	6	36.0	6	78.7	4	3.3
NORTH DAKOTA	11	54.0	45.1	58.4	12	36.2	12	74.6	1	3.3
SOUTH DAKOTA	6	59.9	55.8	58.7	5	28.8	6	77.8		
MONTANA	5	56.7	46.9	61.2	5	35.2	5	74.2		
MEAN	28	53.9	47.3	58.4	28	34.6	29	76.0	4	3.3

9800264

LEAF AND STEM RUST DATA - 1995 AND 1996

VARIETY	LEAF RUST		STEM RUST - ST. PAUL	
	PROSPER	ST. PAUL	1995	1996
N92-0434	5R	TMS	TR	TR
STOA	5R	5S	5R-MR	TR
BUTTE 86	5MR	TMR	R	10MR
GUNNER	TR	5S	30MS-MR	5R-MR

0103-814-AD20
MAY 30 1996
9800264

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP*The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.**Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).*

1. NAME OF APPLICANT(S) HybriTech U.S., a unit of Monsanto Company	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER N92-0434	3. VARIETY NAME 'Hagar'
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 5912 N. Meridan Street Wichita, Kansas 67204-1699	5. TELEPHONE (include area code) 316-755-1250	6. FAX (include area code) 316-755-0072
7. PVPO NUMBER 9800264		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
9. Is the applicant (individual or company) a U.S. national or U.S. based company? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country		
10. Is the applicant the original owner? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no, please answer one of the following:		
a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)? <input type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country		
b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country		
11. Additional explanation on ownership (if needed, use reverse for extra space): *Please see following page.		

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

Exhibit E.
Statement of the Basis of Applicant's Ownership

The variety for which Plant Variety Protection is hereby sought was developed by Joe Smith, an employee of Agripro Seeds, Inc. By agreement between employees and Agripro Seeds, Inc., all rights to any invention, discovery, or development made by the employee while employed by Agripro Seeds, Inc., were assigned to Agripro Seeds, Inc., with no rights of any kind pertaining to 'Hagar' being retained by the employees.

By contractual agreement the variety 'Hagar' was purchased from Agripro Seeds, Inc. in June of 1996 and is currently owned by HybriTech Seed International, Inc.

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